

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P193990

Luminaire Tested: **GAN-AF-02-LED-U-T3-8030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-T3-8030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9940 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

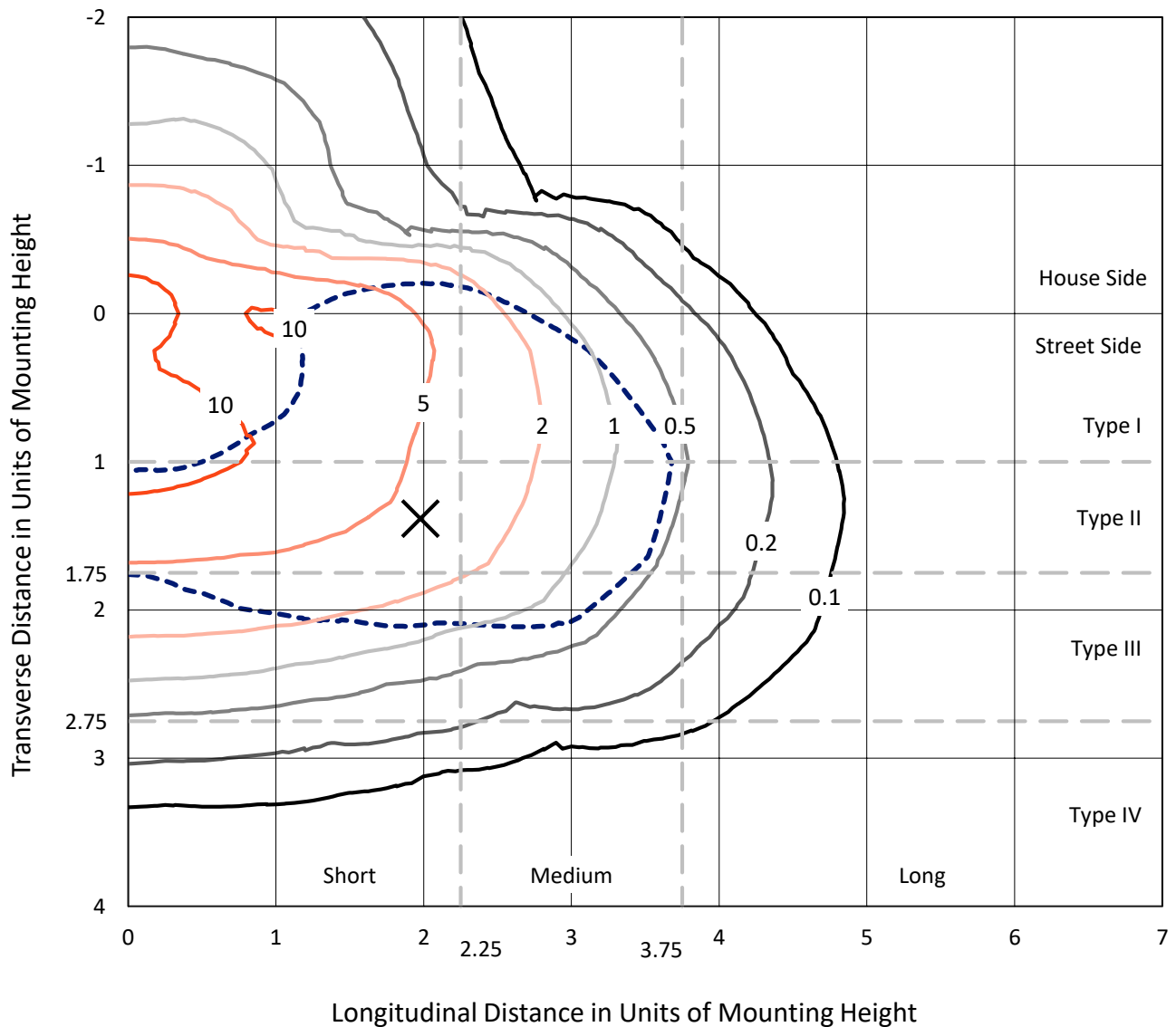
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

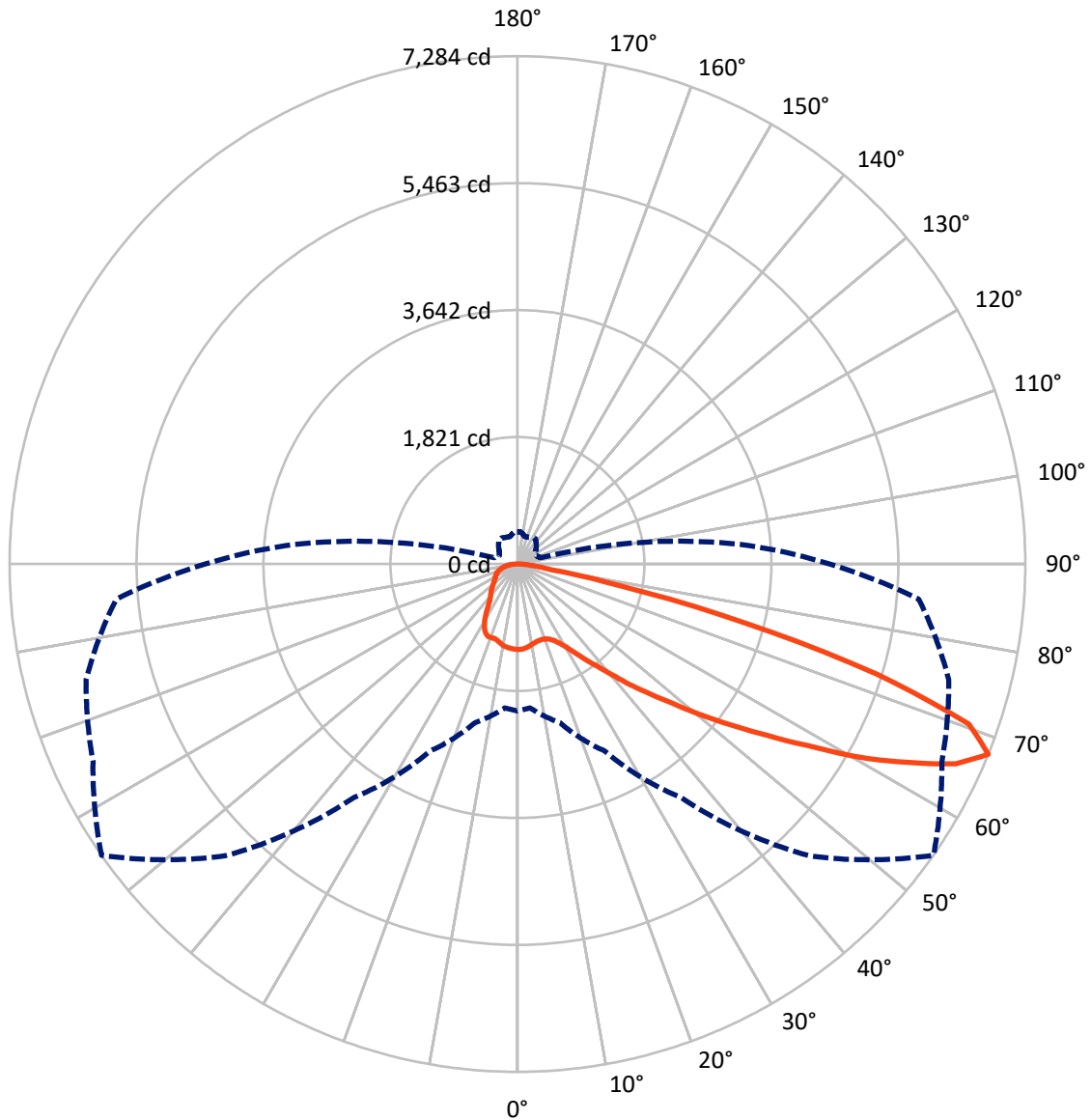
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2147.2	0.0	2147.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	7792.8	0.0	7792.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	9940.0	0.0	9940.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	1.2
10°-20°	324.0	3.3
20°-30°	542.8	5.5
30°-40°	892.5	9.0
40°-50°	1502.4	15.1
50°-60°	2364.7	23.8
60°-70°	2822.0	28.4
70°-80°	1211.8	12.2
80°-90°	165.2	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9940.0	100.0
0°-180°	9940.0	100.0



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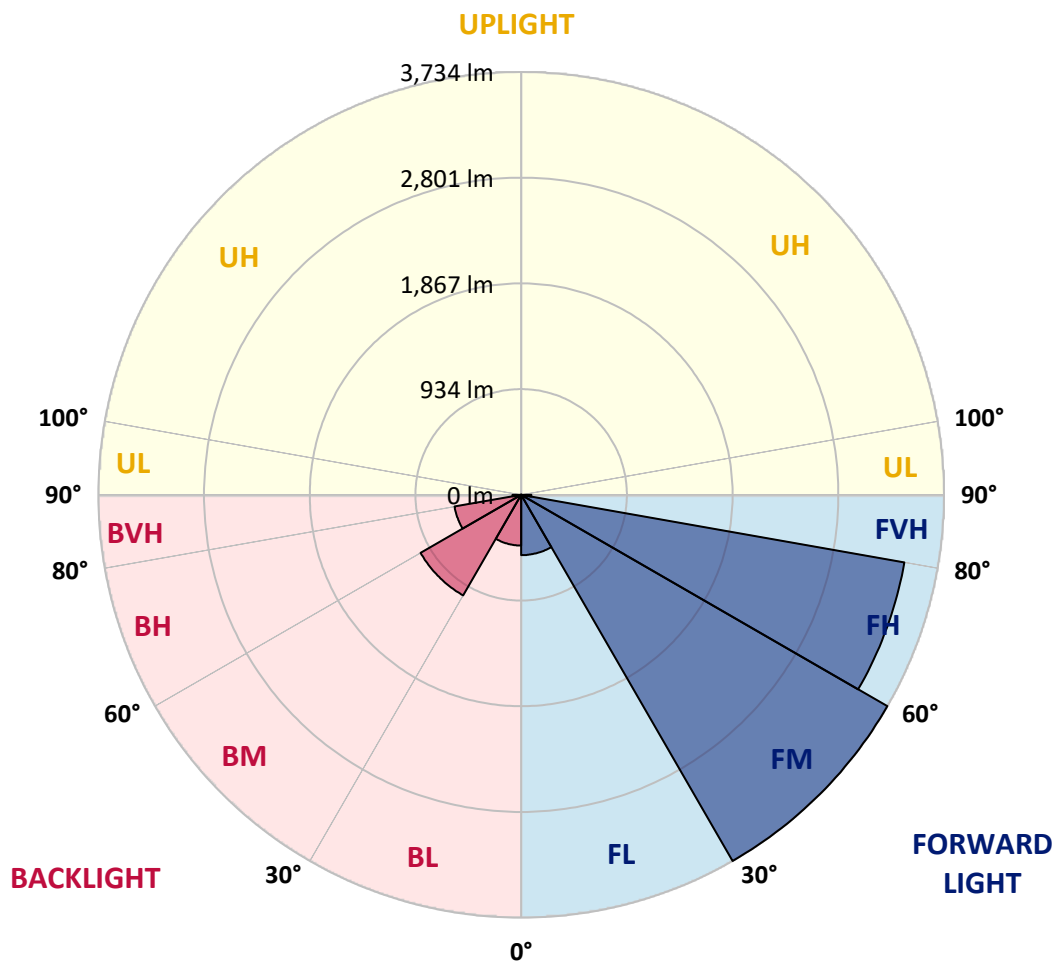
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	532.8	5.4			
FM	(30°-60°)	3734.2	37.6			
FH	(60°-80°)	3436.3	34.6			G2/5000
FVH	(80°-90°)	89.4	0.9			G1/100
BL	(0°-30°)	448.4	4.5	B1/500		
BM	(30°-60°)	1025.5	10.3	B2/2500		
BH	(60°-80°)	597.6	6.0	B2/1000		G2/1000
BVH	(80°-90°)	75.8	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7
2.5°	1215.1	1215.6	1216.6	1220.4	1223.8	1222.8	1223.3	1221.4	1220.9	1218.0	1220.9
5°	1199.8	1201.2	1201.7	1207.9	1211.8	1212.7	1211.3	1208.9	1206.0	1203.1	1204.6
7.5°	1164.7	1168.6	1169.1	1177.7	1183.9	1192.1	1192.6	1193.1	1191.6	1189.7	1192.6
10°	1142.7	1143.6	1143.1	1149.4	1154.2	1163.3	1168.6	1177.7	1181.5	1182.5	1184.4
12.5°	1141.2	1140.3	1138.8	1138.8	1137.4	1141.2	1150.8	1163.8	1172.9	1175.8	1178.2
15°	1156.6	1156.1	1151.3	1144.1	1135.0	1132.1	1140.3	1154.7	1166.7	1172.9	1175.3
17.5°	1191.1	1188.3	1180.6	1164.3	1144.6	1136.9	1137.9	1149.9	1163.8	1171.9	1174.3
20°	1254.5	1254.5	1238.2	1207.5	1172.4	1154.2	1145.5	1152.7	1166.2	1177.2	1180.6
22.5°	1364.0	1364.9	1337.6	1287.2	1228.1	1189.2	1167.6	1166.2	1182.0	1194.5	1198.3
25°	1519.1	1515.2	1476.8	1404.8	1315.0	1250.7	1213.2	1204.6	1218.0	1232.0	1236.8
27.5°	1699.6	1685.7	1640.0	1553.1	1437.0	1342.9	1285.2	1271.3	1284.3	1300.1	1304.9
30°	1878.2	1863.8	1809.5	1714.5	1585.3	1466.2	1383.7	1361.1	1379.3	1401.9	1404.8
32.5°	2056.8	2056.8	1996.3	1885.4	1744.7	1613.6	1514.7	1487.8	1518.1	1545.5	1551.7
35°	2270.4	2271.4	2212.8	2079.3	1928.1	1789.4	1680.4	1660.7	1706.3	1725.5	1740.4
37.5°	2533.0	2538.3	2462.9	2301.6	2136.0	1990.0	1860.4	1833.5	1879.1	1931.5	1979.5
40°	2816.8	2823.5	2740.4	2541.7	2376.0	2223.4	2083.2	2034.7	2110.5	2210.4	2272.3
42.5°	3087.6	3122.1	3042.0	2837.4	2659.3	2501.4	2359.2	2288.7	2383.7	2534.5	2588.3
45°	3478.8	3503.8	3364.1	3178.8	3011.2	2834.5	2646.3	2571.9	2704.9	2895.0	2906.1
47.5°	3739.5	3720.8	3649.8	3534.5	3428.4	3263.3	2980.0	2898.4	3075.1	3298.8	3236.9
50°	3878.3	3884.1	3874.5	3881.2	3885.0	3781.3	3389.1	3277.2	3488.0	3758.3	3615.7
52.5°	4007.9	3969.5	4001.2	4158.7	4348.8	4310.4	3834.1	3717.5	3930.6	4268.1	4016.1
55°	4005.0	3946.5	4049.7	4327.7	4740.1	4784.3	4333.9	4199.5	4398.7	4815.0	4440.5
57.5°	3863.4	3866.3	4025.2	4389.1	5012.8	5229.8	4913.9	4712.2	4895.2	5369.0	4827.9
60°	3668.5	3694.9	3923.9	4379.0	5231.2	5595.2	5625.4	5264.8	5381.5	5872.7	5148.7
62.5°	3354.0	3381.9	3697.8	4274.4	5198.1	5947.1	6268.7	5891.9	5889.9	6178.0	5242.8
65°	2858.1	2849.9	3181.7	3883.1	4920.1	6207.3	6907.8	6433.9	6273.1	6182.8	5053.6
67.5°	2107.7	2071.2	2355.9	2957.5	4089.5	5915.9	7283.7	6716.2	6403.7	5776.2	4475.5
70°	1093.7	1057.2	1287.6	1726.9	2689.6	4617.2	6867.4	6570.3	6115.1	4841.9	3506.2
72.5°	467.6	461.4	555.0	757.6	1301.1	2663.1	5384.9	5686.9	5247.1	3607.5	2410.6
75°	314.5	312.5	347.6	412.9	585.2	1080.7	3369.9	4036.7	3838.9	2236.8	1355.8
77.5°	246.8	244.4	265.0	296.7	379.3	426.3	1495.5	2167.2	2005.9	973.7	593.4
80°	193.0	191.1	204.0	221.3	272.7	268.9	492.1	862.3	667.3	373.0	288.5
82.5°	152.2	152.2	162.8	163.2	193.5	183.4	256.9	379.8	333.2	217.5	176.7
85°	139.2	139.2	150.3	121.9	126.3	115.7	159.4	225.2	211.2	89.3	76.8
87.5°	70.1	68.2	126.3	108.0	68.7	61.5	77.8	109.0	117.1	49.5	38.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7	1225.7
2.5°	1219.9	1219.5	1220.4	1220.9	1224.8	1230.0	1232.4	1235.8	1237.7	1236.8
5°	1205.5	1206.5	1210.3	1213.2	1219.9	1228.6	1233.4	1237.2	1240.6	1239.2
7.5°	1193.5	1195.9	1201.7	1204.1	1207.9	1210.3	1209.9	1211.3	1214.2	1210.8
10°	1186.8	1189.7	1194.0	1190.7	1181.5	1168.6	1156.6	1150.3	1152.3	1149.9
12.5°	1180.1	1183.9	1180.6	1164.7	1139.3	1122.5	1113.4	1114.3	1118.6	1119.6
15°	1176.3	1177.7	1163.3	1133.5	1107.6	1105.2	1110.0	1109.0	1109.5	1109.5
17.5°	1176.3	1172.4	1145.5	1115.8	1104.7	1100.4	1085.5	1066.8	1058.6	1055.8
20°	1182.5	1172.4	1139.8	1120.1	1096.1	1059.1	1019.7	985.2	969.8	965.5
22.5°	1201.2	1183.9	1156.1	1122.0	1053.8	991.9	929.5	888.2	860.3	855.5
25°	1239.2	1219.9	1188.3	1096.6	986.6	898.3	827.2	781.1	753.3	749.4
27.5°	1305.4	1292.9	1205.5	1040.4	897.3	802.7	737.0	701.4	680.8	679.3
30°	1405.3	1399.0	1196.9	957.3	787.4	710.1	678.4	657.7	642.4	641.9
32.5°	1564.7	1514.3	1168.6	856.0	687.0	644.3	631.3	618.9	606.9	606.9
35°	1769.7	1607.4	1114.8	747.5	626.1	607.8	591.5	571.8	556.0	555.0
37.5°	2010.7	1665.0	1018.3	660.1	597.3	583.3	559.3	530.0	502.2	497.4
40°	2254.1	1682.3	882.4	606.4	579.0	558.8	529.6	495.0	468.1	466.7
42.5°	2477.3	1649.2	738.4	569.4	560.8	533.9	503.2	472.4	451.3	450.8
45°	2664.6	1563.2	617.4	534.4	541.6	511.3	483.9	459.0	442.7	439.3
47.5°	2840.8	1441.8	532.4	497.4	522.4	498.8	475.8	452.3	436.4	434.0
50°	3045.3	1310.7	472.9	461.4	505.6	494.5	482.5	458.0	431.6	428.7
52.5°	3293.0	1197.4	426.3	429.7	492.6	500.3	499.8	474.3	428.3	424.4
55°	3569.6	1071.6	391.3	403.8	487.3	510.8	504.1	489.7	431.1	425.4
57.5°	3841.8	924.7	366.8	384.1	479.6	509.9	483.5	462.8	437.9	429.7
60°	4045.9	727.4	348.1	366.8	462.8	494.0	460.9	433.5	436.4	430.2
62.5°	4059.3	562.2	325.5	351.9	437.4	478.2	446.0	420.6	442.7	436.9
65°	3820.7	424.9	303.9	334.2	410.0	468.1	431.6	413.4	455.6	449.4
67.5°	3216.7	341.8	285.7	315.9	382.6	447.0	418.7	406.6	467.1	456.1
70°	2322.3	291.4	267.9	293.8	358.2	423.0	407.1	394.6	435.9	418.7
72.5°	1429.8	252.5	247.7	264.5	339.4	398.0	389.8	372.1	392.7	378.8
75°	713.9	218.9	225.2	235.7	313.0	369.7	361.0	343.3	346.2	343.3
77.5°	341.8	187.2	198.8	206.9	278.9	337.5	328.4	310.1	306.8	307.3
80°	216.5	156.5	167.6	173.3	249.2	300.1	290.9	272.7	311.1	288.5
82.5°	135.4	127.2	130.1	140.7	217.0	261.2	249.2	232.9	280.4	221.8
85°	74.9	88.8	92.7	101.8	167.1	218.4	206.4	185.8	166.6	163.7
87.5°	44.6	52.8	54.3	61.0	112.3	158.0	139.7	132.5	109.9	109.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)